## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10/535,4

Source:

Date Processed by STIC:

ENTERED



PCT

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/535,442**DATE: 05/27/2005

TIME: 10:47:19

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\05272005\J535442.raw

```
3 <110> APPLICANT: Roth, Stina Jalava, Jari Nikkari, Simo
      5 <120> TITLE OF INVENTION: Nucleic acid probes and broad-range primers from regions in
topoisomerase
             genes, and methods in which they are used
     6
     8 <130> FILE REFERENCE: 2022264PC/US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/535,442
C--> 10 <141> CURRENT FILING DATE: 2005-05-19
    10 <160> NUMBER OF SEQ ID NOS: 77
    12 <170> SOFTWARE: PatentIn version 3.1
    14 <210> SEQ ID NO: 1
    16 <211> LENGTH: 23
    18 <212> TYPE: DNA
     20 <213> ORGANISM: Streptococcus pneumoniae
     22 <400> SEQUENCE: 1
    23 ctcaaaagaa ggtcttcacc atc
    28 <210> SEQ ID NO: 2
    30 <211> LENGTH: 23
    32 <212> TYPE: DNA
    34 <213> ORGANISM: Streptococcus pneumoniae
    36 <400> SEQUENCE: 2
                                                                               23
    37 gccatattca agtttttatt gag
     42 <210> SEO ID NO: 3
    44 <211> LENGTH: 23
    46 <212> TYPE: DNA
    48 <213> ORGANISM: Streptococcus pneumoniae
    50 <400> SEQUENCE: 3
    51 agccagatga ttcgattact gtt
                                                                               23
    56 <210> SEQ ID NO: 4
    58 <211> LENGTH: 23
    60 <212> TYPE: DNA
    62 <213> ORGANISM: Streptococcus pneumoniae
    64 <400> SEQUENCE: 4
    65 ttgagaccgt ctttacagtc ctt
                                                                               23
    70 <210> SEQ ID NO: 5
    72 <211> LENGTH: 23
    74 <212> TYPE: DNA
    76 <213> ORGANISM: Streptococcus pyogenes
    78 <400> SEQUENCE: 5
                                                                               23
    79 gttttgcctc tcatattaaa gtc
    84 <210> SEQ ID NO: 6
    86 <211> LENGTH: 23
    88 <212> TYPE: DNA
    90 <213> ORGANISM: Streptococcus pyogenes
```

92 <400> SEQUENCE: 6

Input Set : A:\PTO.DA.txt

93 tctttattga agcagataat tcc	23
98 <210> SEQ ID NO: 7	
100 <211> LENGTH: 23	
102 <212> TYPE: DNA	
104 <213> ORGANISM: Streptococcus pyogenes	
106 <400> SEQUENCE: 7	
107 cgttgaaaca gtttttacag tct	23
112 <210> SEQ ID NO: 8	
114 <211> LENGTH: 23	
116 <212> TYPE: DNA	
118 <213> ORGANISM: Chlamydia pneumoniae	
120 <400> SEQUENCE: 8	
121 ggtcttcatc atctagtcta tga	23
126 <210> SEQ ID NO: 9	
128 <211> LENGTH: 23	
130 <212> TYPE: DNA	
132 <213> ORGANISM: Chlamydia pneumoniae	
134 <400> SEQUENCE: 9	
135 ggttgtagac wacagcattg acg	23
140 <210> SEQ ID NO: 10	
142 <211> LENGTH: 23	
144 <212> TYPE: DNA	
146 <213> ORGANISM: Chlamydia pneumoniae	
148 <400> SEQUENCE: 10	
149 agccatggca gsttattgct cta	23
154 <210> SEQ ID NO: 11	
156 <211> LENGTH: 23	
158 <212> TYPE: DNA	
160 <213> ORGANISM: Chlamydia pneumoniae	
162 <400> SEQUENCE: 11	
163 ggattgatgt tsgcatttta gag	23
168 <210> SEQ ID NO: 12	
170 <211> LENGTH: 23	
172 <212> TYPE: DNA	
174 <213> ORGANISM: Chlamydia pneumoniae	
176 <400> SEQUENCE: 12	
177 gggtattgtc wtcgtagata atg	23
182 <210> SEQ ID NO: 13	
184 <211> LENGTH: 22	
186 <212> TYPE: DNA	
188 <213> ORGANISM: Chlamydia pneumoniae	
190 <400> SEQUENCE: 13	
191 ttattgctct aggattgatg tt	22
196 <210> SEQ ID NO: 14	
198 <211> LENGTH: 23	
200 <212> TYPE: DNA	
202 <213> ORGANISM: Chlamydia pneumoniae	
204 <400> SEQUENCE: 14	
205 gcattttaga gsacgggggt att	23

Input Set : A:\PTO.DA.txt

	<210> SEQ ID NO: 15	
	<211> LENGTH: 24	
	<212> TYPE: DNA	
	<213> ORGANISM: Mycoplasma pneumoniae	
	<400> SEQUENCE: 15	
	tcaaactaac ccttaaagac aact	24
	<210> SEQ ID NO: 16	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Mycoplasma pneumoniae	
	<400> SEQUENCE: 16	
	tgaaacagtg tttacggtac tcc	23
	<210> SEQ ID NO: 17	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Haemophilus influenzae	
	<400> SEQUENCE: 17	
	atgataattc tgtatcggtg caa	23
	<210> SEQ ID NO: 18 ·	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Haemophilus influenzae	
	<400> SEQUENCE: 18	0.0
	agcagaagtt attatgactg tgc	23
	<210> SEQ ID NO: 19	
	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Haemophilus influenzae	
	<400> SEQUENCE: 19	23
	gacgataact cttataaagt atc	23
	<210> SEQ ID NO: 20	
	<211> LENGTH: 24	
	<212> TYPE: DNA	
	<213> ORGANISM: Haemophilus influenzae <400> SEQUENCE: 20	
	·-	24
	gataccgatg acggtactgg tttg	24
	<211> LENGTH: 23	
	<211> LENGTH: 23 <212> TYPE: DNA	
	<213> ORGANISM: Staphylococcus aureus	
	<400> SEQUENCE: 21	
	agtgtgggaa attgtcgata ata	23
	<210> SEQ ID NO: 22	23
	<211> LENGTH: 25	
	<211> LENGTH: 25 <212> TYPE: DNA	
	<213> ORGANISM: Staphylococcus aureus	
	<400> SEQUENCE: 22	
	tgaagttgtt attgaaaaag ataac	25
	<210> SEQ ID NO: 23	
244	ZION DEQ ID NO. 23	

Input Set : A:\PTO.DA.txt

-	<211> LENGTH: 23	
	<212> TYPE: DNA	
328	<213> ORGANISM: Staphylococcus aureus	
	<400> SEQUENCE: 23	
	ggattaaagt aacggataac gga	23
336	<210> SEQ ID NO: 24	
	<211> LENGTH: 24	
	<212> TYPE: DNA	
342	<213> ORGANISM: Staphylococcus aureus	
344	<400> SEQUENCE: 24	
	ctgtcgaagt tattttaact gttt	24
350	<210> SEQ ID NO: 25	
352	<211> LENGTH: 23	
	<212> TYPE: DNA	
356	<213> ORGANISM: Staphylococcus aureus	
	<400> SEQUENCE: 25	
359	cgacttcaga gagaggtttg cac	23
364	<210> SEQ ID NO: 26	
366	<211> LENGTH: 23	
	<212> TYPE: DNA	
370	<213> ORGANISM: Pseudomonas aeruginosa	
372	<400> SEQUENCE: 26	
373	gaaatcagca tcaccatcca tac	23
378	<210> SEQ ID NO: 27	
	<211> LENGTH: 23	
382	<212> TYPE: DNA	
384	<213> ORGANISM: Pseudomonas aeruginosa	
386	<400> SEQUENCE: 27	
387	atacggatga gtcgatcact gtc	23
392	<210> SEQ ID NO: 28	
394	<211> LENGTH: 23	
396	<212> TYPE: DNA	
398	<213> ORGANISM: Pseudomonas aeruginosa	
400	<400> SEQUENCE: 28	
401	gacgacaaca cctacaaggt gtc	23
406	<210> SEQ ID NO: 29	
408	<211> LENGTH: 24	
410	<212> TYPE: DNA	
412	<213> ORGANISM: Pseudomonas aeruginosa	
414	<400> SEQUENCE: 29	
415	gacaccgacg atggcaccgg tctg	24
420	<210> SEQ ID NO: 30	
422	<211> LENGTH: 23	
424	<212> TYPE: DNA	
426	<213> ORGANISM: Neisseria gonorrhoeae	
428	<400> SEQUENCE: 30	
429	ttcgacaaca acagctacaa aat	23
434	<210> SEQ ID NO: 31	
436	<211> LENGTH: 23	
	·	

Input Set : A:\PTO.DA.txt

438	<212> TYPE: DNA	
440	<213> ORGANISM: Neisseria gonorrhoeae	
	<400> SEQUENCE: 31	
	atatggtgtt tgaagtattg gac	23
448	<210> SEQ ID NO: 32	
	<211> LENGTH: 23	
452	<212> TYPE: DNA	
454	<213> ORGANISM: Neisseria gonorrhoeae	
456	<400> SEQUENCE: 32	
457	gacaaaatca cggtaacgat aca	23
462	<210> SEQ ID NO: 33	
464	<211> LENGTH: 23	
466	<212> TYPE: DNA	
468	<213> ORGANISM: Neisseria gonorrhoeae	
470	<400> SEQUENCE: 33	
471	gacaacaaca gctacaaaat ctc	23
476	<210> SEQ ID NO: 34	
478	<211> LENGTH: 23	
	<212> TYPE: DNA	
482	<213> ORGANISM: Escherichia coli	
484	<400> SEQUENCE: 34	
485	tattcgaggt ggtagataac gct	23
490	<210> SEQ ID NO: 35	
492	<211> LENGTH: 23	
494	<212> TYPE: DNA	
496	<213> ORGANISM: Escherichia coli	
498	<400> SEQUENCE: 35	
499	ttcacgccga taactctgtc tct	23
504	<210> SEQ ID NO: 36	
506	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Escherichia coli	
	<400> SEQUENCE: 36	
513	cgccgataac tctgtctctg tac	23
	<210> SEQ ID NO: 37	,
520	<211> LENGTH: 23	
	<212> TYPE: DNA	
	<213> ORGANISM: Escherichia coli	
	<400> SEQUENCE: 37	
	gacgataact cctataaagt gtc	23
	<210> SEQ ID NO: 38	
	<211> LENGTH: 24	
	<212> TYPE: DNA	
	<213> ORGANISM: Escherichia coli	
	<400> SEQUENCE: 38	
	gacacggatg acggcaccgg tctg	24
	<210> SEQ ID NO: 39	
	<211> LENGTH: 23	
550	<212> TYPE: DNA	

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\05272005\J535442.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seg#:73; N Pos. 18,288

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) '5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,442

DATE: 05/27/2005 TIME: 10:47:20

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\05272005\J535442.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0

M:341 Repeated in SeqNo=73